STX

SMARTNET

MOTOROLA

MOTOROLA

Portable Products Division
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for
Manual No. 68P81049C90-O
"STX" SERIES "Handie-Talkie" Portable Radio
SMARTNET

This revision outlines changes that have occurred since the printing of your manual. Use this information to supplement your manual. Installation of these changes in earlier equipment is not necessary except as recommended in Motorola Service and Repair Notes (SRN's).

On page 21 (How to STORE Phone Numbers) add the following:

NOTE:
If you have Phone and Radio ID storage, "LIST PH" and "STORE PH" is displayed.

Page 4 of this FMR (How to use Scan) is a direct replacement of page 33 in your manual. The remaining pages of this FMR describe the following options and enhancements to your radio:

- How to use Automatic Multiple Site Selection (AMSS).
- How to send an unlimited CALL ALERT (Page).
- How to send a Message.
- How to send an unlimited Private Conversation call.
- What to Do When You Get a Private Conversation call.
- How to LIST six digit radio numbers and use them.
- How to STORE six digit radio numbers.
- How to use Priority Monitor.
- How to use System Search & Lock.
- How to send your Status.

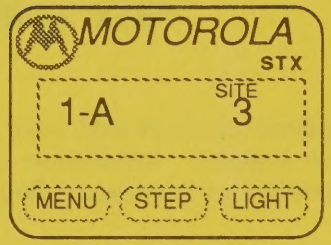
How to use
Automatic Multiple Site Selection (AMSS)

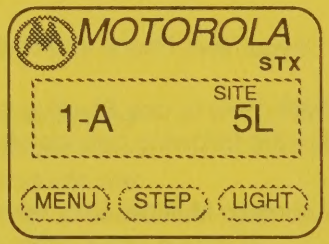
display radios only

If your radio has AMSS, you can operate from up to 8 sites in your area. Normally, your STX automatically tries to find the best site available. You can, however, force the STX radio to look for a better site if reception is noisy.

1. Press MENU until you see SITE on the display. Now press STEP to tell the radio to look for another site. The number under SITE is the current site. If you see a dash instead of a number, the STX cannot find a site.
2. You can lock onto this site to keep the STX from looking for another site. Press and HOLD STEP until you hear a chirp and see an L next to the site number. The STX will still look for another site if you press STEP momentarily.
3. To unlock and resume the automatic scanning, press and HOLD STEP until you hear a chirp and the L goes away.
4. The lock position is remembered when the radio is off in the same way as the key chirps. When the site is locked, your STX will not try to find a new site unless you press STEP momentarily.
5. If one or more sites are in Failsoft, you can still change sites. It will take several seconds as the STX will first attempt to find a new trunking site before looking for a new Failsoft site. See the Failsoft page.

SPECIAL NOTE ABOUT AMSS:
If you have difficulty accessing the system, you may wish to unlock your STX to allow it to find another site.





How to send an unlimited CALL ALERT(Page)

display radios only

If your radio has Unlimited Call Alert encode mode, you'll be able to Call Alert (page) other people.

1. Press MENU until you see ALERT shown on the display. You will either see the last persons ID or dashs.

2. To Call Alert a new person, type their six digit ID number . Remember that all radios have six digits. You must enter a 0 for IDs that start with a zero. I f you make a mistake, STEP can be used to backspace and erase. When the number is complete, press and release the PTT switch. If a bad chirp occurs, the number is invalid.

3. If you hear a single beep and ALERT is flashing, your Call Alert was sent but not received. When you hear 5 beeps, the person you Call Alerted has received your call Alert (page). The STX returns to SUB mode.

If you leave your STX radio in Call Alert, it gives a constant low pitched tone reminding you that you may be missing subfleet calls.

How to use Scan

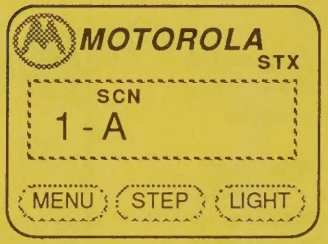
display radios only

If your radio has Scan, you'll be able to scan up to five different groups plus your selected group. A group is a subfleet.

1. Choose your selected group by using system and subfleet select. Then, press MENU until you see SCN shown on the display. Your selected group will be displayed.

2. If a conversation is initiated on any of the groups the radio is scanning, the display will show the talking group and you will be able to hear the conversation. You will be able to talk back to that group if you desire.

5. When a conversation occurs and it is not in your selected group, a momentary press of the STEP key disables listening to that group. This is called nuisance delete. To be able to listen to that group again, leave SCN by pressing MENU. Continue pressing MENU until you see SCN shown on the display again.



How to send a Message

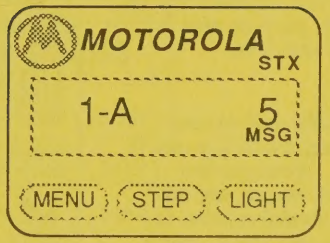
display radios only

If your radio has Message, you'll be able to send eight different Messages to the dispatcher. Ask your local system operator for the meaning of the different Messages.

1. Press MENU until you see MSG shown on the display. Select a Message using the STEP key or by directly pressing a digit, 1 through 8. When you've chosen a message, press and release the PTT switch.

2. If you hear a single beep and MSG is flashing, the message was sent but not received by the dispatcher. When you hear 5 beeps, the dispatcher has received your message, and the radio returns to the SUB.

If you leave your STX radio in MSG, it will give a constant low pitched tone reminding you that you may be missing subfleet calls.



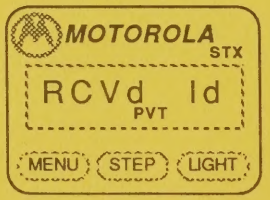
How to send an unlimited Private Conversation call

display radios only

If your radio has unlimited Private Conversation, you'll be able to talk privately with other individuals.

1. Press MENU until you see PVT displayed; the STX is now in private call. When you first move into private call, you will see the last six digit number of the radio you last called, unless you have received a private call, in which case RCVD ID is displayed. To talk privately to the last person who private called you, press the PTT switch and begin your conversation with RCVD ID displayed.

2. To call a new person, type their six digit ID number . Remember that all radios have six digits. You must enter a 0 for IDs that start with a zero I f you make a mistake, STEP can be used to backspace and erase. When the number is complete, simply press the PTT switch to talk. If a bad chirp occurs, the number is invalid.



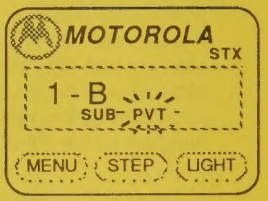
What to Do When You Get a Private Conversation call

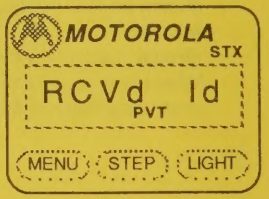
display radios only

When you receive a Private Conversation call, but your radio is not in PVT, you'll see PVT flashing on the display. You will also hear the Private Conversation alert (2 beeps) and hear your caller's voice.

To move your radio into PVT, press menu until you see PVT on solid and RCVD ID. Then, press the PTT switch to talk to the person that called you.

Make sure that you enter PVT. If you press PTT while PVT is still flashing, you will make a normal subfleet call.





How to LIST six digit radio numbers and use them.

display radios only

1. In SUB, press 0 (STORE) until LIST ID is displayed.

2. Press the number (1-9) of the location that contains the six digit radio ID number you want to see.

3. You can see the six digit radio ID number of YOUR radio. In SUB, press 0 (STORE) until LIST ID is displayed. Press the star key * to see your own ID.

4. To use the unlimited list with either Private Conversation or Call Alert, press MENU until you have entered the mode you want.

5. Press STEP (RECALL). RECALL will be displayed. Press the number of the location that contains the radio number that you want. If you want to call the last person that called you, press STEP (RECALL) and then 0.

6. The six digit radio ID will appear. For Private Conversation, press the PTT switch and talk to the other user. For Call Alert, press and release the PTT switch to Alert the other radio. If a bad chirp occurs when you press the PTT, you have stored a invalid number.

How to STORE six digit radio numbers.

display radios only

You can store up to 9 unlimited radio ID's for use in Private Conversation and Call Alert.

1. Put your radio into subfleet select; SUB is displayed.

2. Press 0 (STORE) until you see STORE ID. You will see LIST PH and STORE PH if you have phone storage. You will see LIST ID before seeing STORE ID.

3. Press the number (1-9) of the location you want to store the radio six digit ID in.

4. Dashes are displayed if no number has been stored in the location you have selected. Otherwise, you will see the number you previously stored.

5. Press the buttons for the six digit radio number you want to store. Remember all radio numbers have six digits. Radios that begin with zero must have the 0 typed. If you make a mistake use STEP to backspace and erase.

6. Press MENU to store the number at the location you selected.

How to use Priority Monitor

display radios only

If your radio has Priority Monitor, you'll be able to scan up to five different groups plus your selected group. Your selected group is marked as priority. A group is a subfleet.

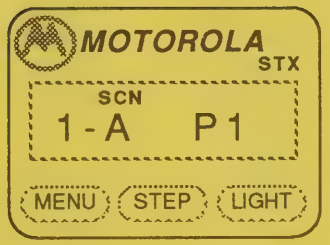
1. Choose your selected group by using system and subfleet select. Then, press MENU until you see SCN shown on the display. Your selected group will be displayed.

2. If a conversation is initiated on any of the groups the radio is scanning, the display will show the talking group and you will be able to hear the conversation. You will be able to talk back to that group if you desire.

3. If the conversation occurs in your selected group, P1 will be shown to the right of the display and the priority beep would be heard if enabled.

4. Any talk in your selected group will always be heard even when you might have been listening to another group.

5. When a conversation occurs and it is not in your priority group, a momentary press of the STEP key disables listening to that group. This is called nuisance delete. To be able to listen to that group again, leave SCN by pressing MENU. Continue pressing MENU until you see SCN shown on the display again.



display radios only

If your radio is equipped with System Search and Lock, your radio can find the best system, even a conventional channel. If reception is noisy, you can force the radio to look for a better system. If your radio loses its home system, it will periodically try to find it again. It will still allow you to communicate on the secondary system.

1. Press MENU until you see the bar in the lower left on the display. To turn on System Search, press and HOLD STEP until you hear a chirp and SRCH On appears momentarily on the display. On the right of the display you will see your home system. Each home system has its own list of systems to search .

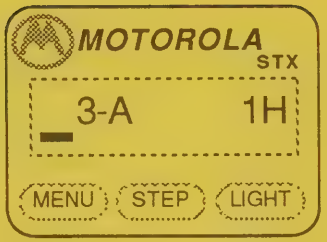
2. To force the STX to look for a new system, press MENU until the bar appears. Press and release STEP. The radio will look for the next system. You may notice that the H on the display blinks while the STX is looking for a system. The home system shown on the right does not change.

3. If you select a new system while the SYS annunciator is on, the current system becomes the new home system. Note that the home system displayed on the right also changes.

4. To turn System Search off, press MENU until the bar appears. Press and HOLD STEP until SRCH OFF appears momentarily. The radio will return and remain on the home system.

5. In the illustration, system 1 is the home system. System Search is turned on, since you see the home system at the right of the display. The radio has searched and found system 3. Momentarily pressing STEP would cause a new search to occur.

If you wish to force the STX to remain on a system, simply turn System Search off and select the desired system.



How to send your Status

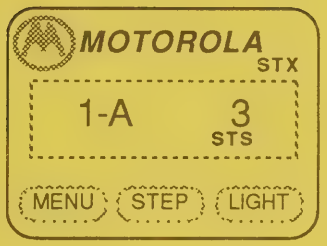
display radios only

If your radio has Status, you'll be able to send eigth different statuses to the dispatcher. Ask your local system operator for the meaning of the different statuses.

1. Press MENU until you see STS shown on the display. The radio will show your current status. If you wish to change your status, select a new status using the STEP key or by directly pressing a digit 1 through 8. When you've chosen a status, press and release the PTT switch.

2. If you hear a single beep and STS is flashing, the status was sent but not received by the dispatcher. When you hear 5 beeps, the dispatcher has received your new status, and the radio returns to the SUB.

If you leave your STX radio in STS, it will give a constant low pitched tone reminding you that you may be missing subfleet calls.



The "STX" Radio by

MOTOROLA

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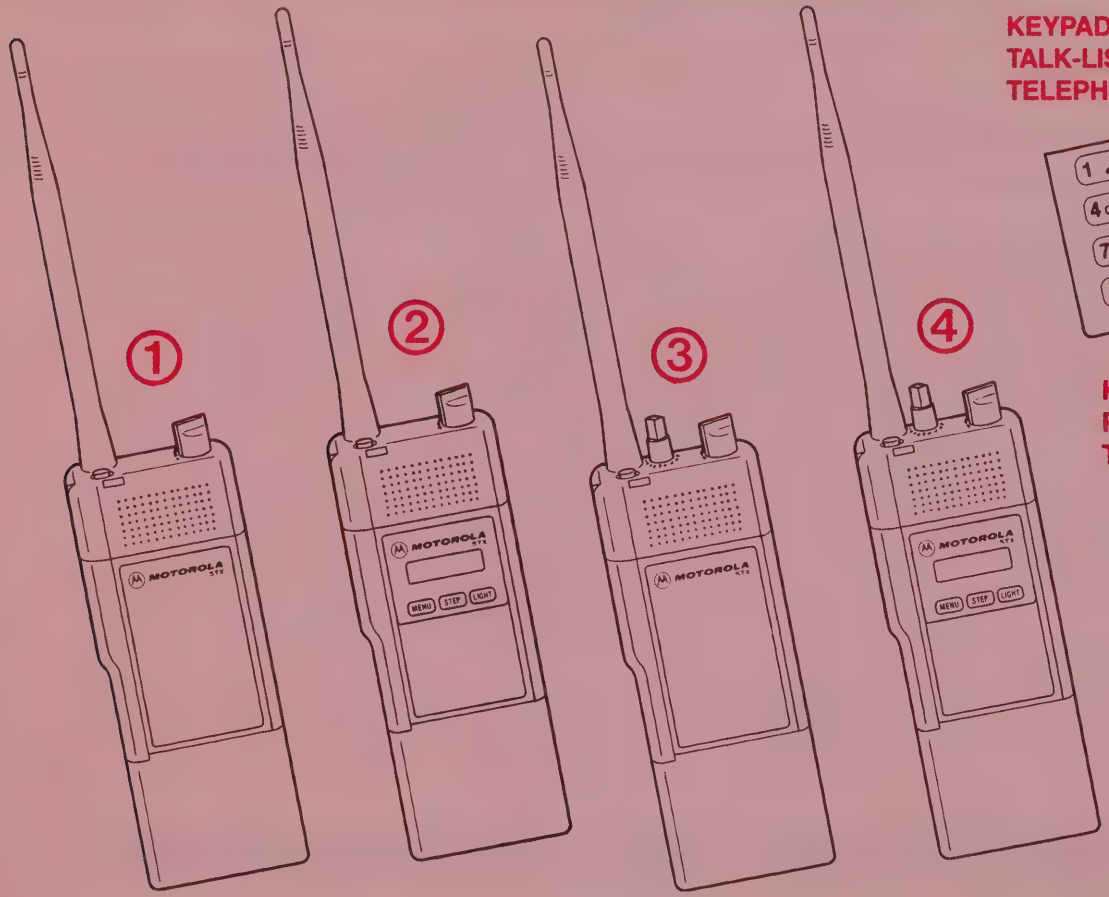
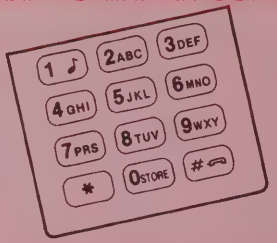
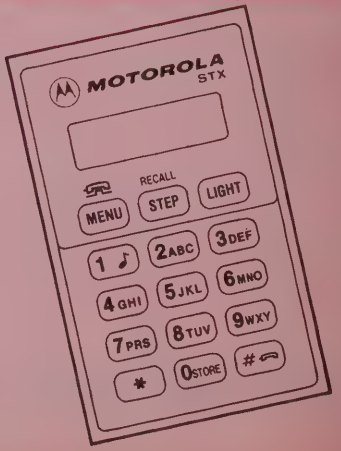


KEYPAD FOR BASIC TALK-LISTEN RADIOS WITH TELEPHONE INTERCONNECT



KEYPAD FOR DISPLAY RADIOS WITH TELEPHONE INTERCONNECT



INTRODUCTION

The STX radio is among the most sophisticated two-way radios on the market today. It can operate on both trunked systems and conventional channels, providing you with maximum communications capability under varying operational circumstances.

One of the newest in a long line of quality Motorola products, the STX radio is smaller, lighter, and much more powerful than comparable radios. What's more, results of our extensive Accelerated Life Testing indicate that the STX radio will also be far more reliable and durable. Such features add up to better, more cost-effective two-way communications for you.

Welcome to the STX radio! We've done our job, now let the STX radio help you do yours.

Identifying Your STX Radio

Your radio is one of the following models (see illustrations at left):

1. the basic talk-listen STX radio with an on-off/volume control.

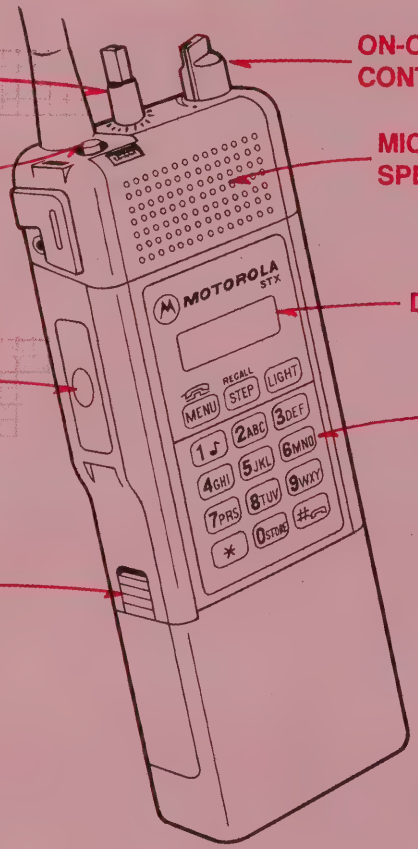
2. the STX radio with an LCD display, 3 buttons (MENU, STEP, LIGHT), and an on-off/volume control.

3. the basic rotary STX radio with a rotary control and an on-off/volume control.

4. the STX radio with an LCD display, 3 buttons (MENU, STEP, LIGHT), a rotary control, and an on-off/volume control.

Except for the basic rotary model (#3 at left), STX radios can have a 12-button keypad, as an option, that enables you, among other things, to make and receive telephone calls from your portable radio.

CONTROLS



Features

- low-battery alert
- time-out-timer
- control button (emergency alarm, emergency call, phone access, volume set)
- Failsoft (trunked system only)
- trunked and/or conventional operation
- keypad lock

Options

- multiple trunked systems and/or conventional channels
- multiple subfleets
- PRIVATE CONVERSATION
- CALL ALERT (Page) encode
- CALL ALERT (Page) decode
- trunking scan
- trunked telephone interconnect
- dynamic regrouping

STX Radios with an LCD Display

Keep in mind that:

1. *When you're asked to press a specific button, press it only as indicated. Don't hold it down; otherwise you may go right by the function you want.*
2. *Not all of the STX radio's many possible functions will be available to you on each system. Of course, it's also possible that you won't have a given function on your radio at all.*
3. *You can't hurt your radio through normal use. Pressing its buttons won't damage it. Don't worry if it "yells" at you. If you get off track, just press **MENU** until you get back to what you wanted to do.*

The MENU Button

MENU is the left button on the front of your radio. Press **MENU** to select the function you want the STX radio to do for you at any given time.

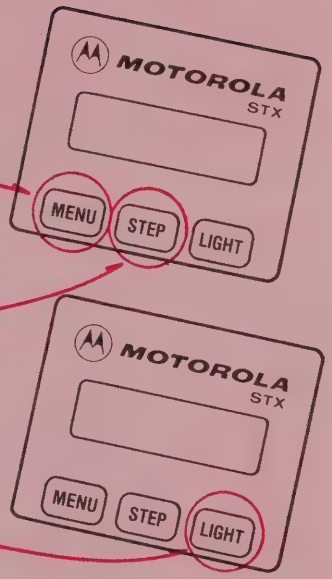
The STEP Button

STEP is just to the right of **MENU.** Press **STEP** to pick the values of the functions you choose with **MENU.**

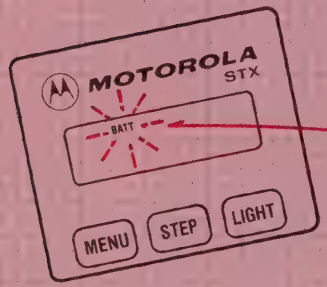
The LIGHT Button

LIGHT is to the right of **STEP.** Pressing **LIGHT** lights up the display for 15 seconds unless you press **LIGHT** again right away to turn it off.

Pressing other keys or turning the rotary control while the light is on will refresh the 15 seconds.



THE ILLUSTRATIONS IN THIS MANUAL SHOWING LCD DISPLAYS ARE EXAMPLES. YOUR DISPLAY MAY AT TIMES APPEAR SLIGHTLY DIFFERENT THAN THE EXAMPLE.



How to Recognize a Low Battery Condition

You get a brief low battery warning after pressing and releasing the PTT switch.

display radios

STX radios having an LCD display come standard with a low-battery alert indicator: **BATT** flashes on the display when your radio's battery requires charging. You also hear a low-battery alert tone (It sounds like a cricket "chirp.") until you either charge the battery or replace it with a freshly charged one.

nondisplay radios

STX radios without the LCD display emit a low-battery alert tone (it sounds like a cricket "chirp") when your radio's battery requires charging. You hear that tone until you either charge the battery or replace it with a freshly charged one.

How the Time-Out-Timer Works

Each STX radio is equipped with a time-out-timer set at 15, 30, 60, or 120 seconds. That timer cuts off radio transmission when you exceed the transmitting time allowed. A warning tone (a low frequency "yell") tells you that transmission is about to end 4 seconds before it does.

Trunked Versus Conventional Radio Operation

The STX trunked portable radio offers you many advantages including fast system access, enhanced privacy, and ease of operation. In a trunked system, there is no need for you to monitor a channel before transmitting. In conventional mode, the STX radio performs like a conventional two-way radio. You must monitor the channel before transmitting to make certain that you're observing standard two-way radio transmission protocol by not talking over someone who is transmitting.

What Failsoft Is and How It Works

The STX radio goes into Failsoft when the central trunking controller fails for any reason. In Failsoft your radio transmits and receives on a predetermined frequency in a conventional, as opposed to trunked, mode. Failsoft insures that you will have communications capability at all times.

display radios

On STX display radios **FSOFT** is shown on the display and you hear a faint beeping tone every 10 seconds (radio unsquelched).

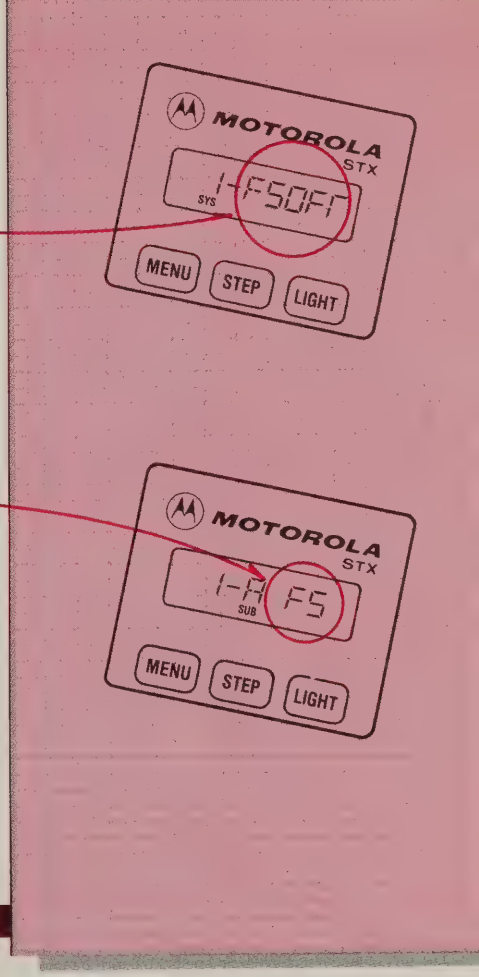
When the trunking system returns to operation, the beeping tone stops, **FSOFT** disappears from the display, and your last system/subfleet position is shown.

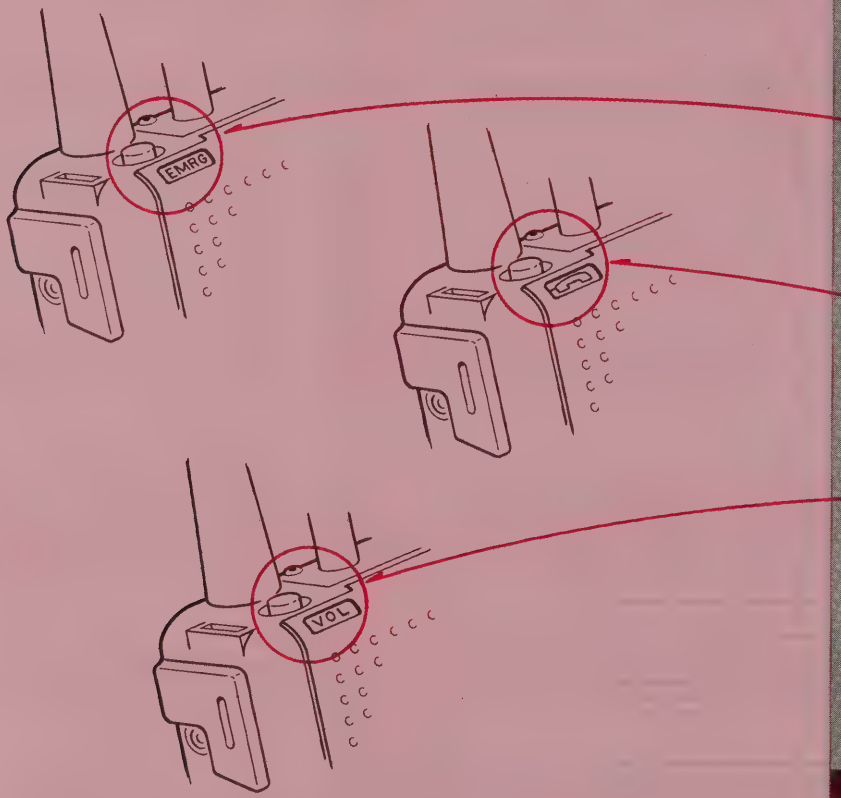
If **FS** is displayed, you may have more than one Failsoft Talk Group.

nondisplay radios

On STX nondisplay radios, Failsoft is signaled by a faint beeping tone every 10 seconds (radio unsquelched).

You know the trunking system has returned to normal operation when the beeping tone has stopped.





How to Use the Control Button

1. If the control button is to be used to send an Emergency Alarm or Call, press it down to send such a signal or message. For detailed information on Emergency Alarm and Call, see pages 28 and 29.
2. If the control button is to be used for telephone access, press it down to get a dial tone. After completing your conversation, press it down again to hang up.
3. If the control button is to be used as a volume set button, press it down to generate a tone that will enable you to set, using the on-off/volume control, how loud or soft you want the audio on your radio to be.

How to Lock / Unlock the Keypad

display radios only

To lock the keypad to prevent accidentally changing your system/sub-fleet position, press **MENU** to get to **LCK.** If it's flashing, the keypad is not locked. Press **STEP** to lock it; press **STEP** again to unlock it.

How to Mute / Unmute Keypad Tones

display radios

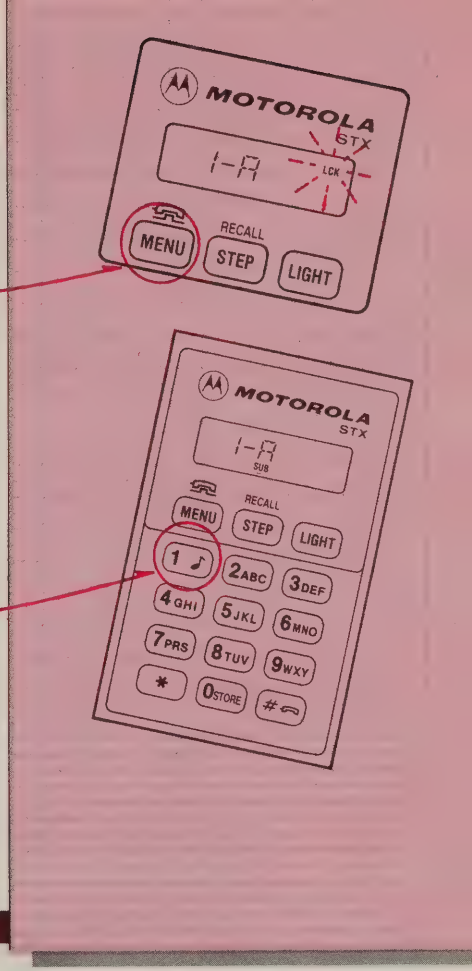
You have undoubtedly noticed that each time you press a button, you hear a "chirp." To turn off the tones which sound when you use the keypad, press **1 (♪)** while the STX radio is in **SUB.**

Press any button, except **MENU** or **1 (♪)**, to hear the effect. You didn't hear a "chirp" did you? Press **1 (♪)** again to restore the sounding of the tones.

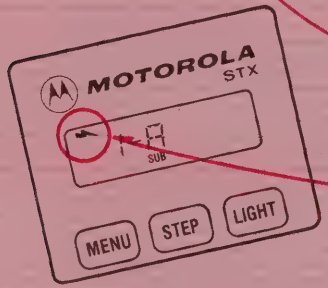
nondisplay radios

In the basic talk-listen radio, you can turn off the tones which sound when you use the keypad by pressing **1 (♪)**. To mute the keypad tones, you must press **1 (♪)** before you enter telephone mode. Press **1 (♪)** again to restore the sounding of the tones.

Your STX radio will always remember if your tones are "on" or "off."



How to Operate the STX Radio



Okay, are you ready to learn how to use the STX radio? Just go through the following instructions carefully and you'll be well on the way to mastering your radio. Even more importantly, you'll be ready to put your radio to work where it really counts – *out in the field.*

> **NOTE:** It's always a good idea to charge your radio's battery each time before using.

Turn on the STX radio by turning the on-off control clockwise.

How to Send a Dispatch Call

trunked systems

Simply press the **PTT** switch to talk to members of the subfleet you're currently in. If you don't hear a tone or you hear talk permit (sounds like "dih-dih-dit"), you're free to talk.

If you hear a busy tone (a low frequency "bah-bah-bah"), release the **PTT** switch and wait for a call back tone (sounds like "dih-dih-dit") or a talk permit tone. The STX radio will hold the **PTT** for you for 3 seconds so that you can make your call without getting another busy tone.

A talk prohibit tone (continous tone heard while **PTT** is depressed) might mean that you're out of range of the trunked system.

If you have a display radio, a lightning bolt appears at the top left of the display – it tells you that you're transmitting.

conventional channels

Press the **PTT** switch to transmit. If a channel is clear, no monitoring is necessary. If a channel is not clear, the radio will not transmit when you press **PTT.** Instead, your radio will unsquelch and monitor for as long as **PTT** is depressed. If you keep the **PTT** pressed, the STX will transmit as soon as the channel is clear.

What to Do When You Get a Dispatch Call

trunked systems or conventional channels

Simply press the **PTT** switch to talk; release it to listen.

Selecting Systems

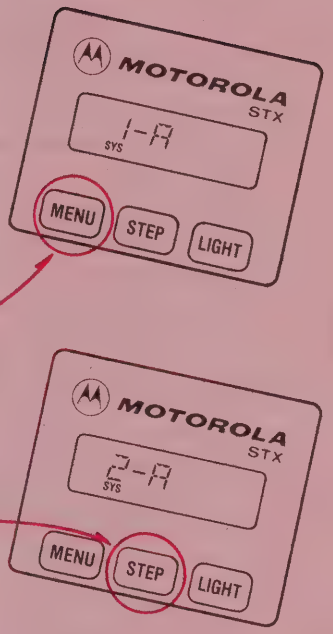
display radios

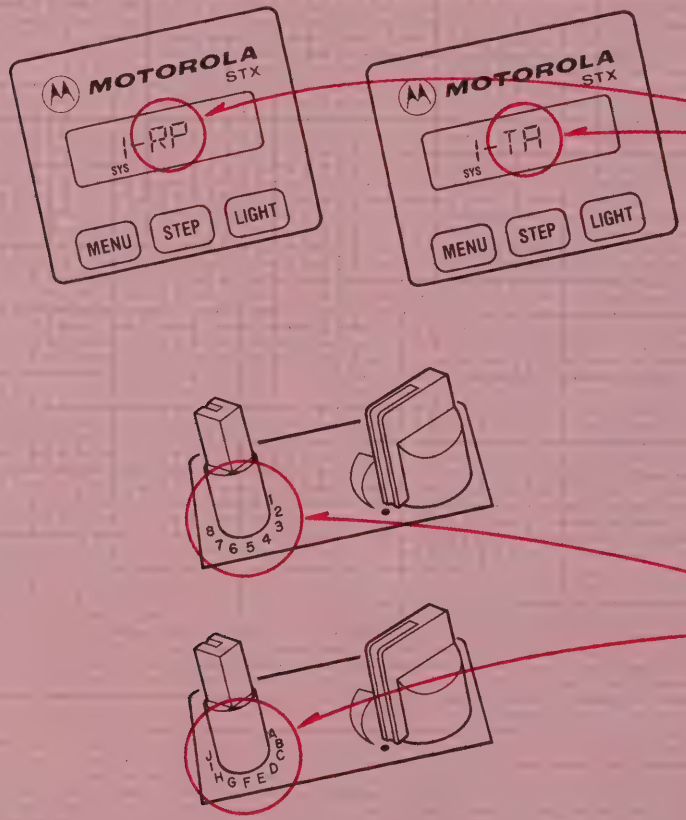
1. When you see **SYS** displayed under the system number, the STX radio is in system select mode.
2. Even though your radio may already be in system select, press **MENU** once, and again, and so on until you get to system select. (You select a function by pressing **MENU.**) **SYS** should be displayed.
3. Now, press **STEP** once, and again, and so on until you have "stepped" through all the systems available in your radio. (You select the value of a function by pressing **STEP.**)

The systems can be all trunked systems or a combination of trunked systems and conventional channels.

Trunked systems are indicated on the display by a system number, followed by a dash, and a subfleet letter.

(Cont.)





Selecting Systems (Cont.)

Conventional channels are indicated by a system number, followed by a dash, and either **RP** or **TA. RP** stands for repeater and **TA** for talkaround (unit to unit) use on conventional channels.

Trunked systems / conventional channels will be numbered from 1 up to 25 depending on how many are contained in your radio.

nondisplay radios

The basic talk-listen STX radio is programmed with 1 trunked system, 1 fleet, and 1 subfleet.

The basic rotary STX radio is programmed with 1 trunked system and 1 conventional channel. Using the rotary control on top you can select either a trunked system, subfleet position, or conventional channel. Systems will be numbered from 1 up to 16. Subfleets will usually be lettered from A up to P. You can have from 1 up to 16 subfleets (actually 15 subfleets and 1 fleetwide).

Selecting Subfleets

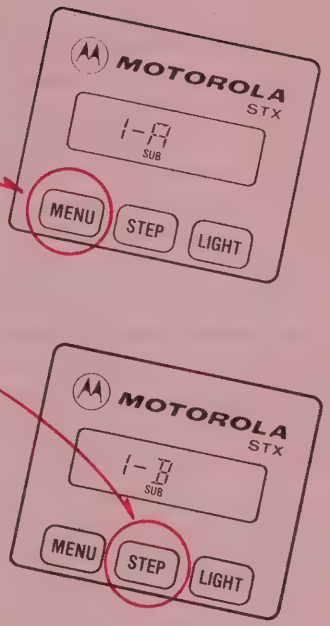
display radios

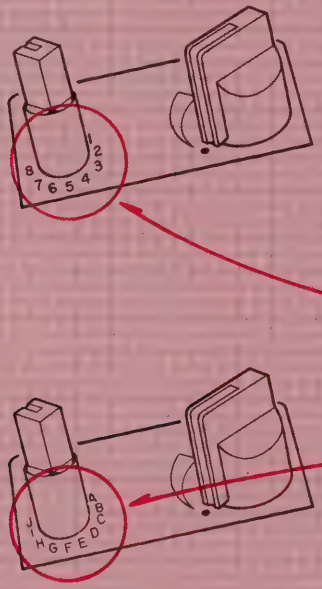
NOTE: *If your radio is the STX display radio with a rotary control, you can only change your radio's subfleet position by turning the rotary control. You can't select subfleets using* ***STEP,*** *but your current subfleet position is shown on the display, matching your rotary position. If your radio gives you a constant low pitched tone from a given subfleet position, you don't have that subfleet. If you see an* ***X*** *displayed, see "What Dynamic Regrouping Is and How It Works." (See page 30)*

1. In a trunked system, when you see **SUB** displayed under the subfleet letter, the STX radio is in subfleet select mode.
2. Even through your radio may already be in subfleet select, press **MENU** once, and again, and so on to get to subfleet select. **SUB** should be displayed.
3. Now, press **STEP** once, and again, and so on until you have "stepped" through the subfleets available on whichever trunked system your radio is in.

   Subfleets will be lettered between **A** and **P** depending on how many and which subfleets were ordered on a particular trunked system.
4. If your radio has more than one trunked system, press **MENU** to go to **SYS,** press **STEP** to select a trunked system number, press **MENU** to go to **SUB,** and press **STEP** to step through the subfleets on the trunked system you selected. Press **MENU** to get back to **SYS.** Repeat this procedure for each trunked system in your radio.

(Cont.)





Selecting Subfleets (Cont.)

nondisplay radios

The basic talk/listen STX radio is programmed with 1 system, 1 fleet, and 1 subfleet. You can't select any other system, fleet, or subfleet.

The basic rotary STX radio permits system select or subfleet select by turning the rotary control on top from one position to another. If your rotary is for system select, with each turn of the rotary control you come to either a trunked system or a conventional channel. If your rotary is for subfleet select, with each turn you come to a different subfleet.

How to Change System/Subfleet Using the Additional Keypad

display radios only

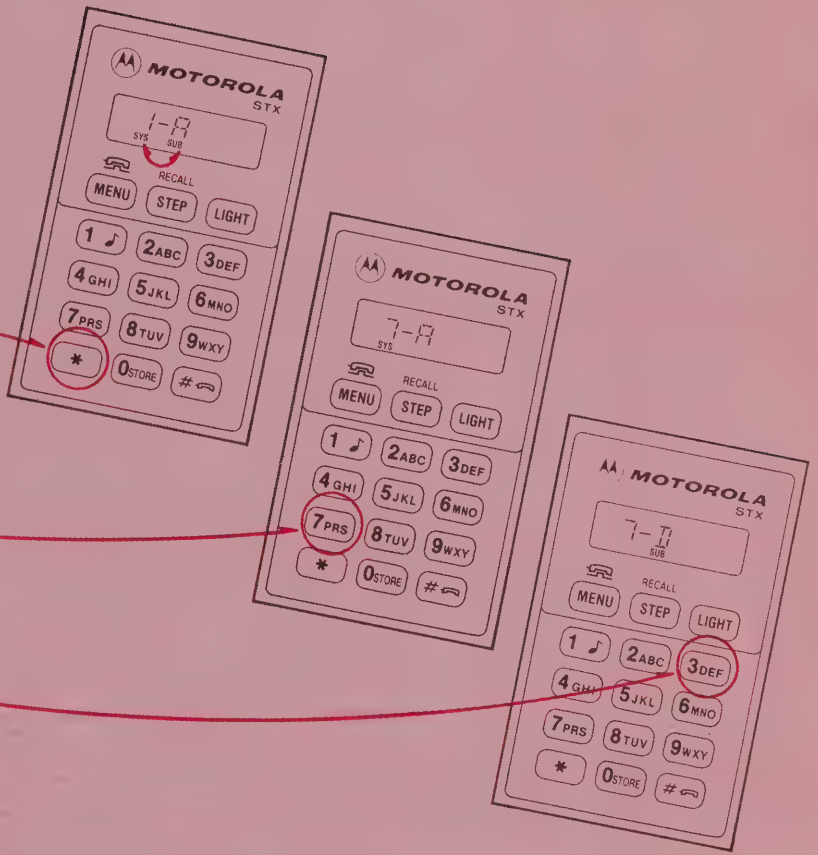
Press *****. What happened? If your radio was in **SUB,** it moved directly to **SYS.**

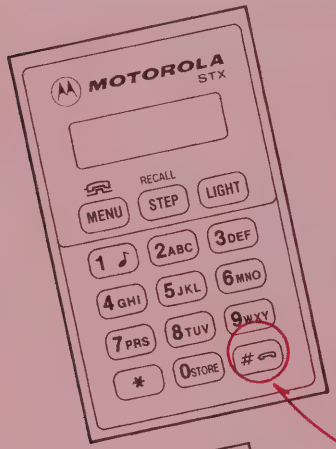
If it was in **SYS,** it moved directly to **SUB.**

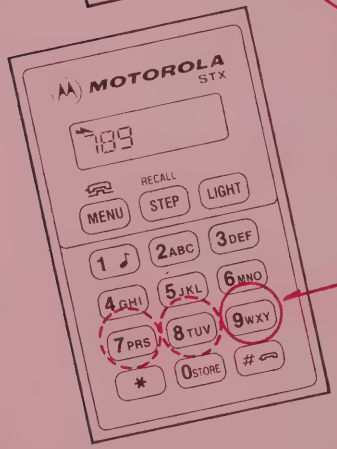
If the STX radio was in any other function, pressing ***** moved you to **SUB.**

Also, you can change your system/subfleet position by using the additional keypad. For example, in **SYS** you can press the digit(s) of the system number to move into that system.

In **SUB,** if you were in subfleet **A** and wanted to move into subfleet **D,** you could do so simply by pressing the **DEF** button. To go to **E,** press the **DEF** button again. Press it again to go to **F.** If your radio doesn't have any one of these subfleets, you'll hear an invalid key tone (sounds like "bonk").







How to Make a Phone Call

Important: If your STX display radio has telephone interconnect, you see (☎) above the **MENU** button, **RECALL** ABOVE THE **STEP** button, (☎) on the # button, and **STORE** on the 0 button. The meaning of each of these symbols and terms will be clear as you go through this section of the manual. See illustrations on page 4.

If you should accidently hang up, redial.

display radios

1. Press # (☎) to get a dial tone. (You can press the control button if it's for telephone access.)
2. To dial, press the correct buttons for the phone number. The lightning bolt and the digits are displayed as you dial. Wait while the phone rings and your call is answered.

If you see **NO PHONE** or **WAIT** for several seconds, the STX radio is having trouble accessing the system. Hang up and try another operating location.

If you see **BUSY** and hear a busy tone ("bah-bah-bah"), the system is "full" and the STX radio will give you a dial tone when a phone line becomes available. Don't hang up. Be patient for a dial tone.

How to Hang Up

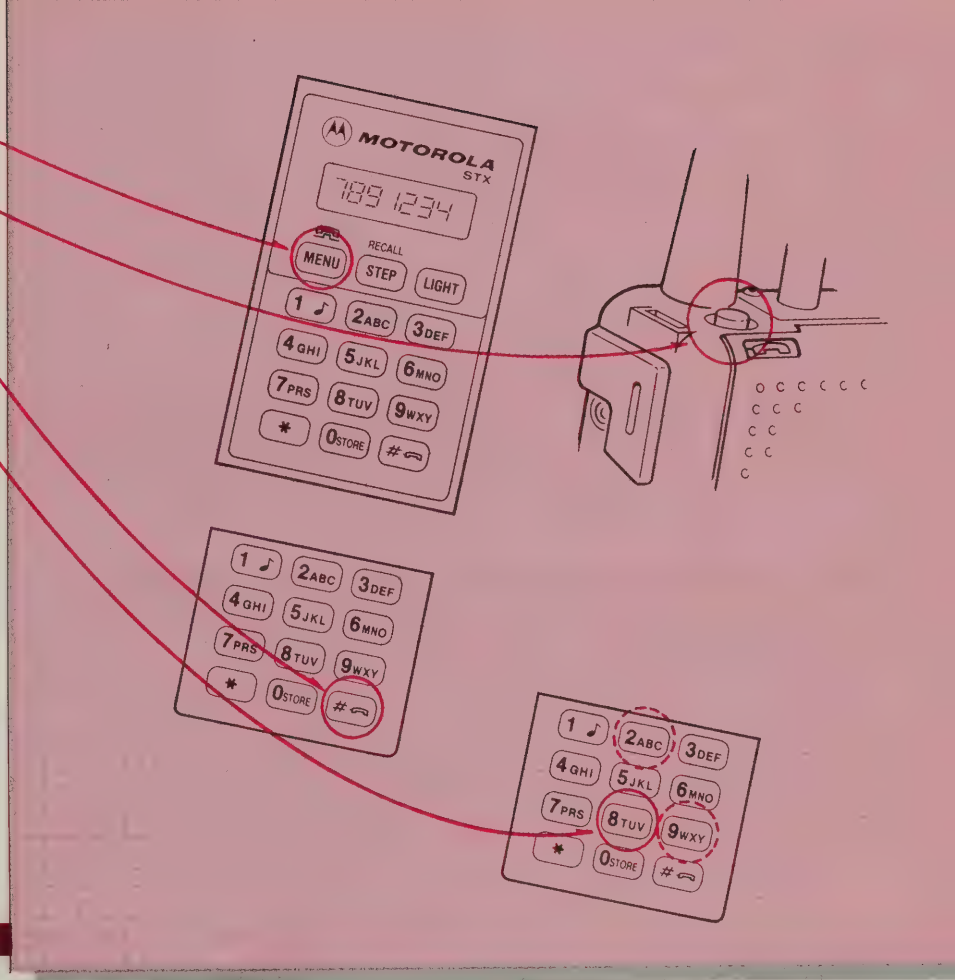
Press the **PTT** switch to talk, release it to listen, and press **MENU** (☎) to hang up. You can press the control button if it's for telephone access.

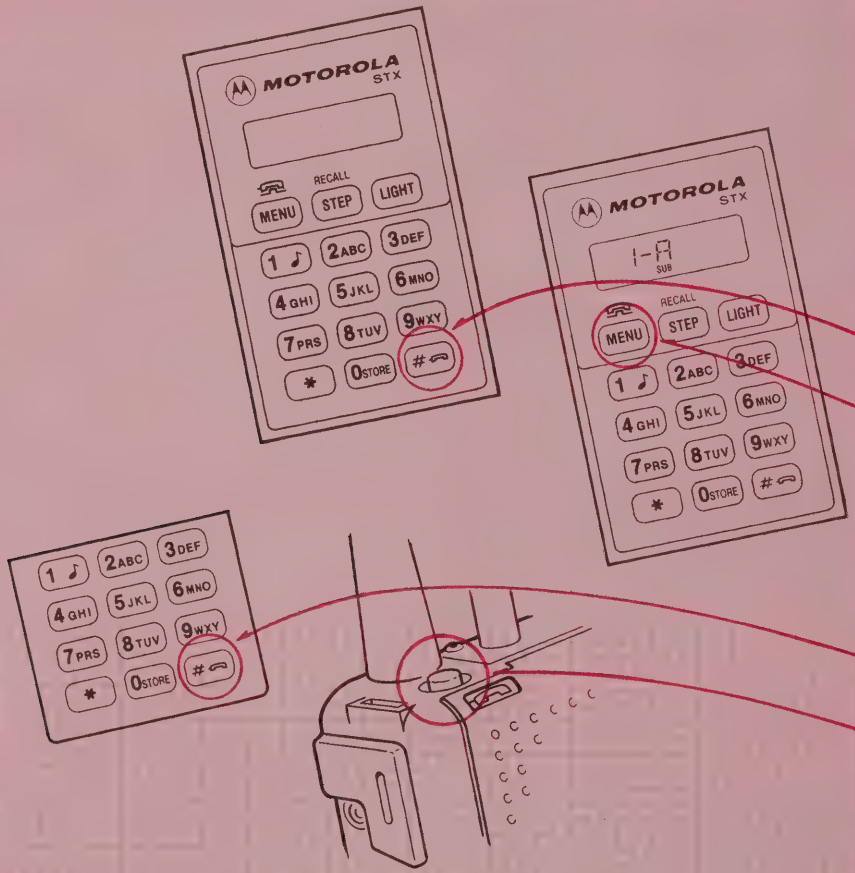
nondisplay radios

Press **#** (☎) to get a dial tone. (You can press the control button if it's for telephone access.) Then simply press the buttons of the number you want to dial.

Press the **PTT** switch to talk, release it to listen. Press the control button to hang up. If you get a busy tone, wait until the STX radio calls you back. If you get a talk prohibit tone, try a different operating location.

NOTE: *When you make a phone call it's good practice to let the person you're talking to know that you're calling from a portable radio. Otherwise, portions of your conversation may be lost. The person you called will hear a "chirp" when you stop talking, telling them that you're listening.*





What to Do When You Get a Phone Call

SPECIAL NOTE: *Your radio can only receive a PRIVATE CONVERSATION Call, a CALL ALERT, or a phone call if it is:*

1. *turned on and in range*
2. *currently on the same system as the caller*
3. *not currently engaged in some other function*

display radios

You hear a ring very much like that of a telephone. Press # ( ) to answer. Press the **PTT** switch to talk, release it to listen. Press **MENU** ( ) to hang up.

If your radio is so programmed, you can use the control button to respond and to hang up.

nondisplay radios

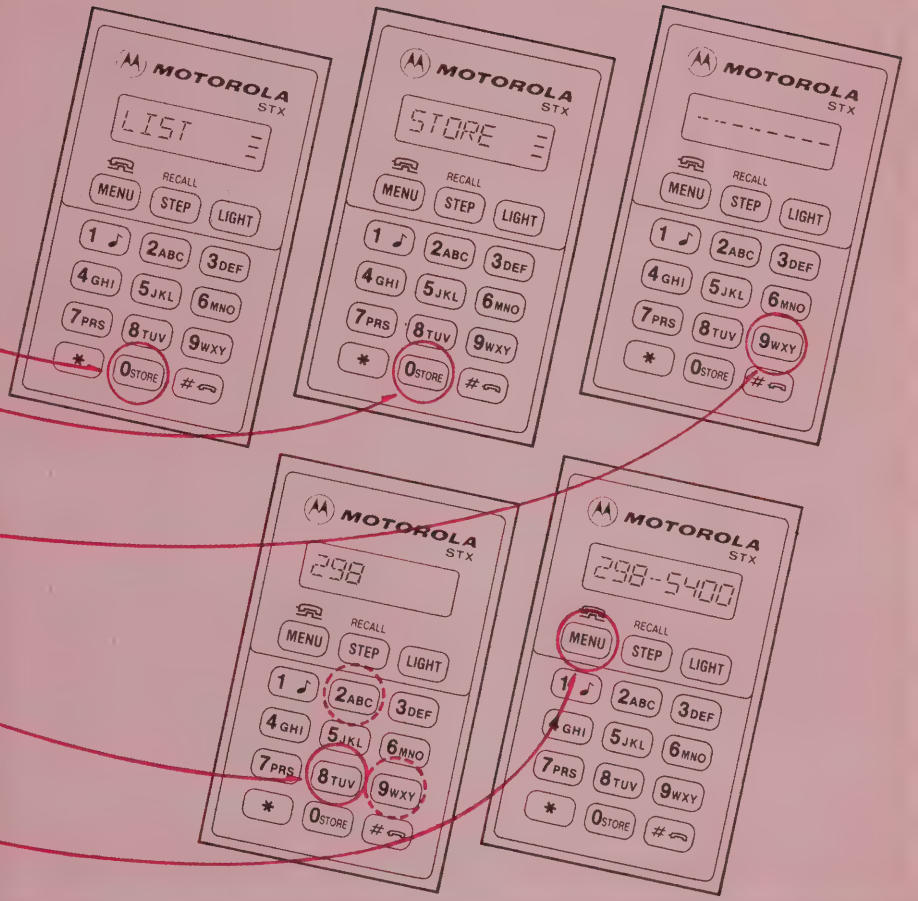
You hear a ring very much like that of a telephone. Press # ( ) to answer. Press the **PTT** switch to talk, release it to listen. Press the control button to hang up.

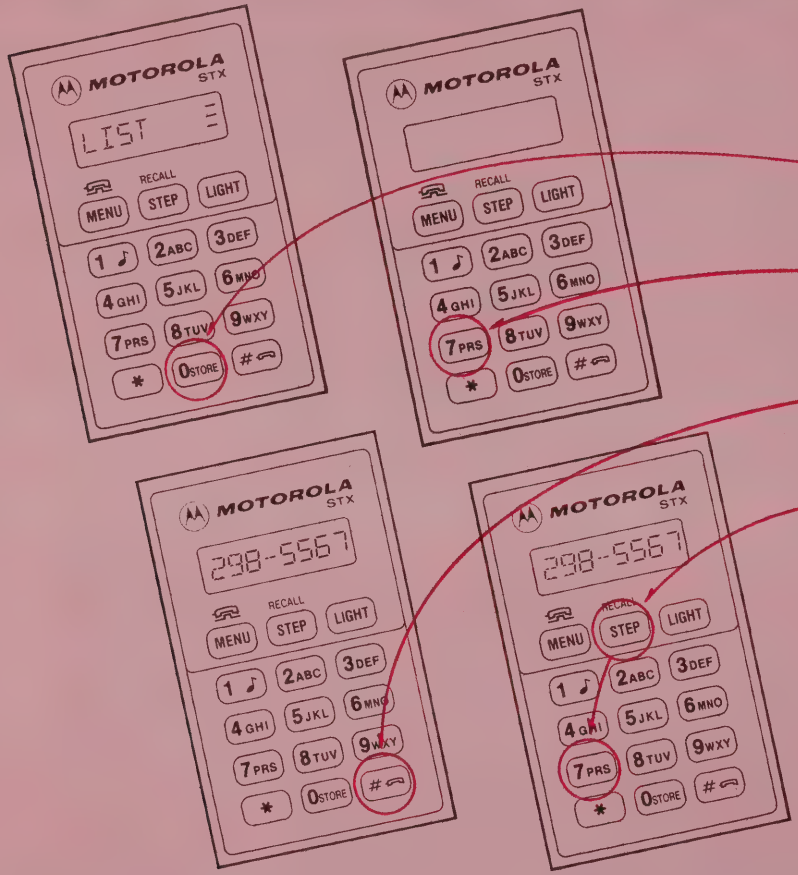
How to STORE Phone Numbers

display radios only

NOTE: *You can "store" up to 9 phone numbers (each of which can have up to 16 digits) in the STX radio. You can store 10 numbers if you count the last number dialed.*

1. Put your radio into subfleet select; **SUB** is displayed.
2. Press **0 (STORE). LIST** is displayed.
3. Press **0 (STORE)** again. **STORE** is displayed.
4. Press the number (1-9) of the location you want to store the phone number in.
5. Dashes are displayed if no number is stored in the location you selected or the number stored in that location previously is shown. The same is true of all 9 locations.
6. Press the buttons for the phone number you want to store. If you make a mistake, press **STEP (RECALL)** to backspace and erase.
7. Press **MENU (** ☎ **)** to store the number in the location you selected.





How to LIST and Dial Stored Phone Numbers

display radios only

1. In **SUB,** press **0 (STORE). LIST** is displayed.
2. Press the number (1-9) of the location that contains the phone number you want to see.
3. To dial that phone number, press **#** **(** ☎ **).** After you get a dial tone, press **STEP (RECALL),** and then the number of the location or **0** because the phone number becomes the last number dialed if you go directly from **LIST** to phone mode.

How to Redial Last Phone Number Dialed

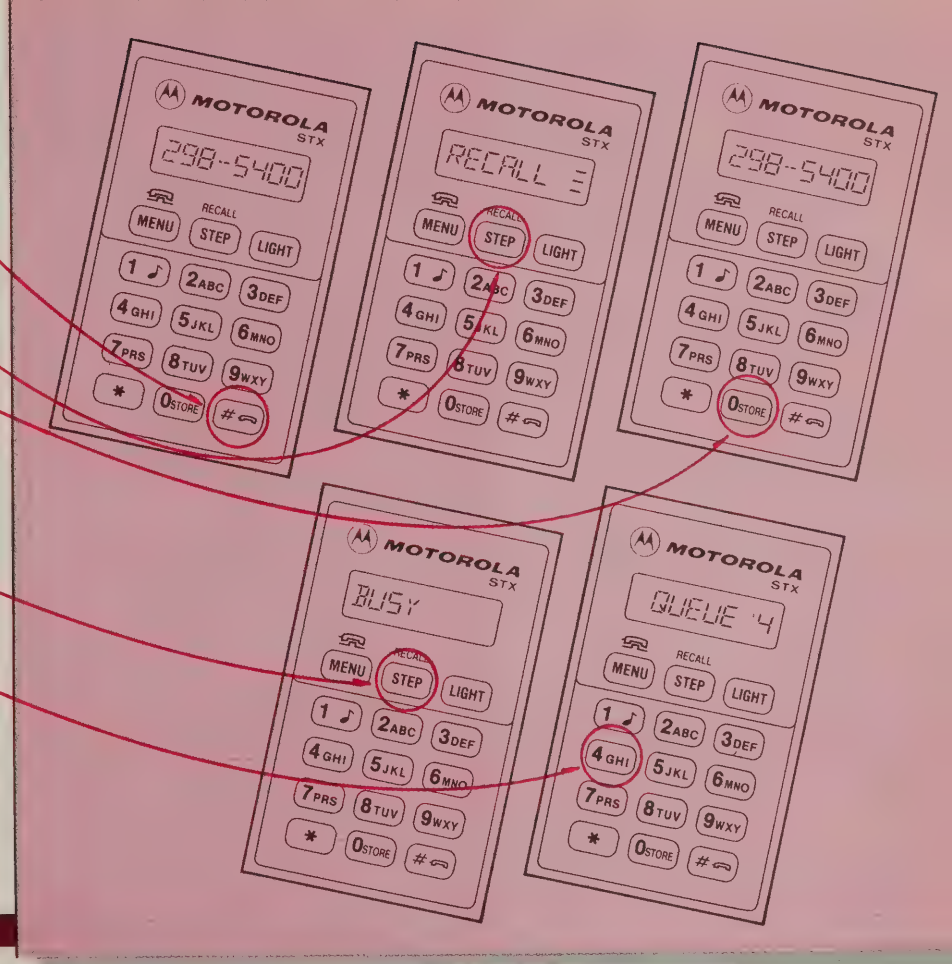
display radios only

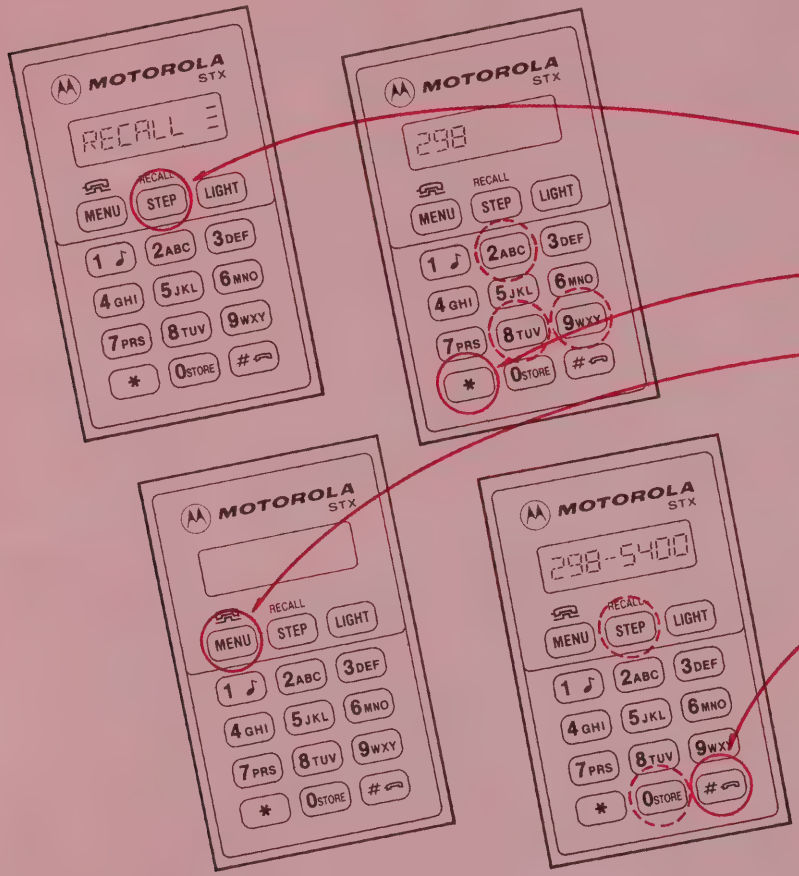
1. Press #(☎) to get a dial tone. (You can press the control button if it's for telephone access.)
2. The last number dialed appears on the display.
3. Press **STEP (RECALL)** and **RECALL** is displayed.
4. Press **0 (STORE)** and the number is dialed.

Preparing to Dial a Stored Phone Number When the System is Busy

display radios only

1. While **BUSY** is shown, press **STEP (RECALL)** and the location (0-9) of the phone number you wish to dial.
2. The STX radio will wait for a dial tone and then dial your number automatically.
3. You can correct your choice before you get a dial tone by pressing another location number or press **STEP (RECALL)** to cancel your queued number.





How to Use the Display as a Scratchpad

display radios only

While you're talking to someone who is on a telephone, you can use the display as a 16-digit scratchpad.

1. Press **STEP (RECALL)** and **RECALL** is displayed.
2. Press * and then press the buttons for the number you want to put on the display.
3. Press **MENU (** ☎ **)** to hang up. (You can press the control button if it's for telephone access.)
4. Press **# (** ☎ **)** to get a dial tone. (You can press the control button if it's for telephone access.)
5. You see the number you entered displayed.
6. Press **STEP (RECALL),** then press **0 (STORE)** to dial that number.

Suggestion: *This is particularly useful when you're calling Information.*

How to Send a CALL ALERT (Page)

display radios only

If your radio has CALL ALERT encode mode, you'll be able to CALL ALERT (Page) any 1 of 8 different people.

1. Press **MENU** until you see **ALERT** shown on the display. Press **STEP** to select the person you want to CALL ALERT (Page). When you've chosen, press and release the **PTT** switch.

2. If you hear a single beep, your CALL ALERT (Page) was sent but not received and **ALERT** is flashing. When you hear 5 beeps the person you call alerted has received your CALL ALERT (Page) and the STX radio returns to **SUB.**

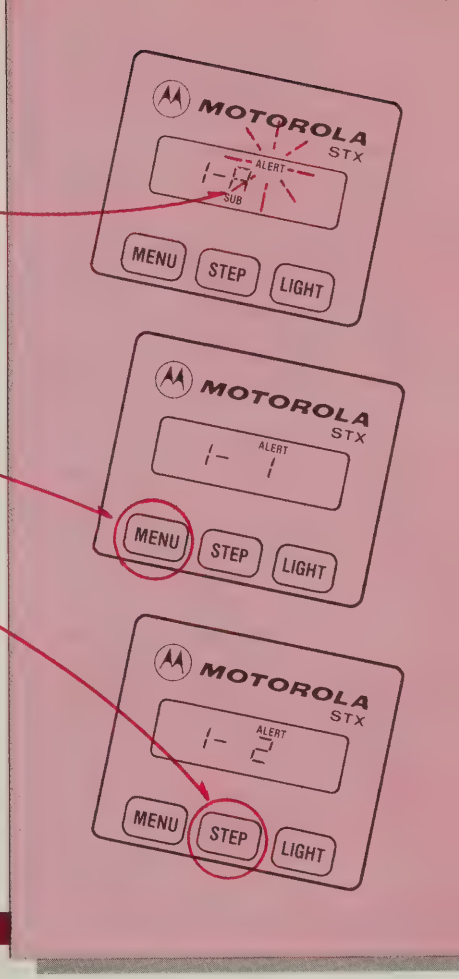
If you leave the STX radio in CALL ALERT (Page), it gives a constant low pitched tone reminding you that you may be missing subfleet calls.

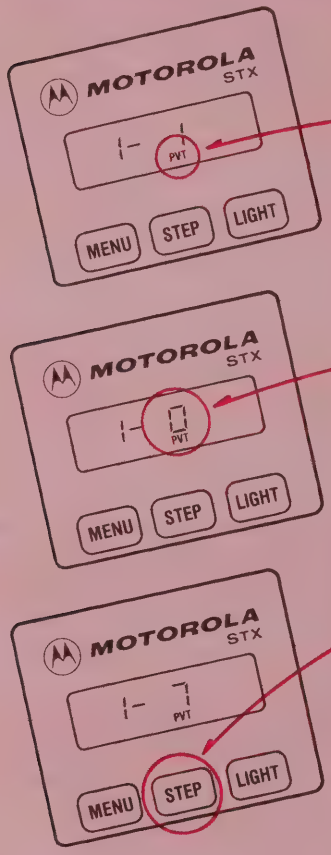
What to Do When You Get a CALL ALERT (Page)

See SPECIAL NOTE on page 20.

display radios only

You know that you're receiving a CALL ALERT (Page) when your radio starts beeping and **ALERT** begins flashing on the display. Press the **PTT** switch to vocally acknowledge the CALL ALERT (Page).





How to Send a PRIVATE CONVERSATION Call

display radios only

1. If your radio has PRIVATE CONVERSATION call select mode, press **MENU** until you see **PVT** displayed – the STX radio is then in PRIVATE CONVERSATION call select.
2. When you first move the STX radio into PRIVATE CONVERSATION call select, **1** is displayed above **PVT,** unless you received a PRIVATE CONVERSATION call earlier, in which case **0** is displayed. To privately call the last person who privately called you, press the **PTT** switch and begin your conversation while **0** is displayed.
3. When the STX radio is in **PVT,** use **STEP** to select the identification number of the person you want to privately call. When his/her number is displayed, simply press the **PTT** switch to talk.

NOTE: *PRIVATE CONVERSATION call select takes two forms – you're able to privately call up to 8 different people one at a time, or you're able to privately call only 1 other person.*

What to Do When You Get a PRIVATE CONVERSATION Call

See SPECIAL NOTE on page 20.

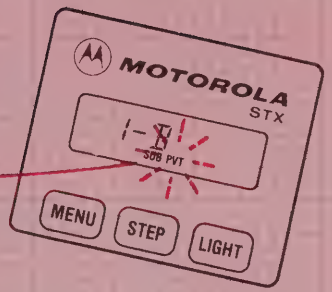
display radios only

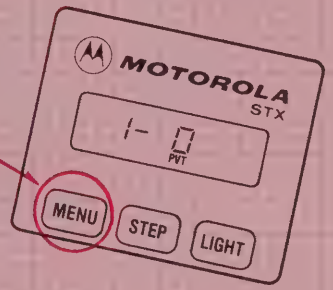
When you receive a PRIVATE CONVERSATION call, but your radio is not in **PVT,** you'll see **PVT** flashing on the display. You'll also hear the PRIVATE CONVERSATION call alert tone (2 beeps) and your caller's voice.

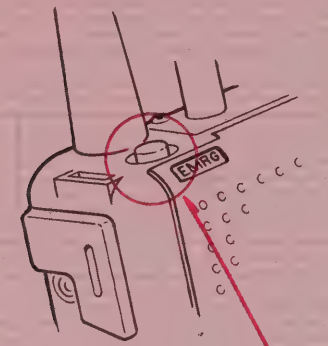
If your radio is not in PRIVATE CONVERSATION call mode, press **MENU** to move into **PVT.** Then, press the **PTT** switch to talk and release it to listen to the person who privately called you.

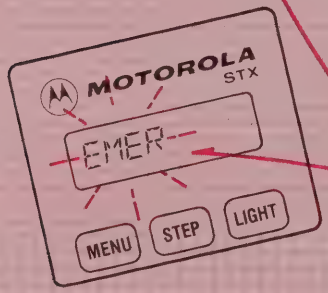
If you don't move the STX radio into **PVT,** you'll be talking to everyone in your subfleet.

Your display will show **0** after you receive a PRIVATE CONVERSATION CALL. This permits you to initiate a PRIVATE CONVERSATION CALL to the person who last called you.









Emergency Alarm and Call Operation

Note: *The Emergency Signal can take two forms, Alarm or Call. Your STX radio may have one or the other or both. Emergency Alarm is for sending an alarm message to the base station. The STX radio will give audible beeps that will indicate if the alarm message got through. Emergency Call is a priority type of dispatch operation, giving you priority channel access.*

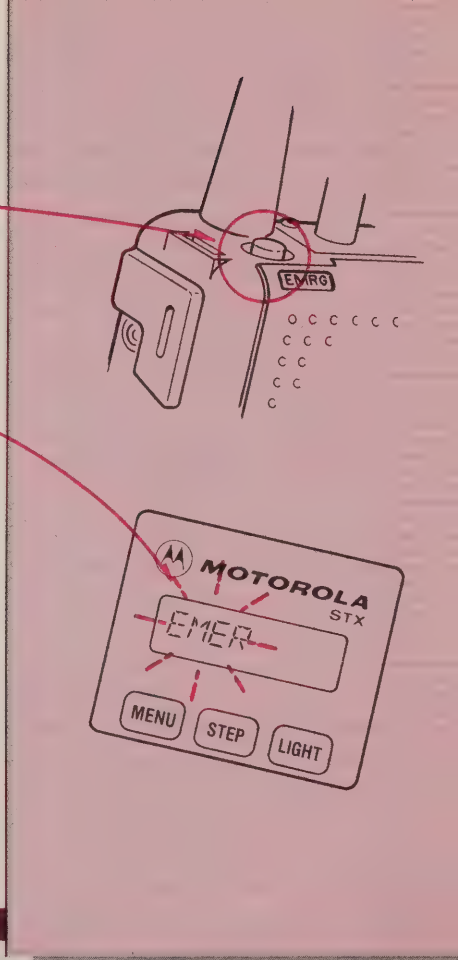
1. **EMERGENCY ALARM.** To enter Emergency mode on the STX radio, press the control button. **EMER** will flash on the display until the alarm message is sent by the STX radio and acknowledged. When the alarm is acknowledged, the STX radio will give 5 quick beeps (like CALL ALERT) and the alarm is finished. When the emergency alarm is finished, the STX radio will automatically return to dispatch **(SYS)** or drop into Emergency Call, if the STX radio has Emergency Call. The control button can be used to exit Emergency Alarm by holding it down. After one and a half seconds, a tone will be heard, indicating that the STX radio has left Emergency mode. If you hear an out-of-range tone when the control button is pressed, the STX radio "knows" that it is out of range of the base station. It will send the alarm as soon as it gets in range, unless you cancel the alarm first, by holding the control button down.

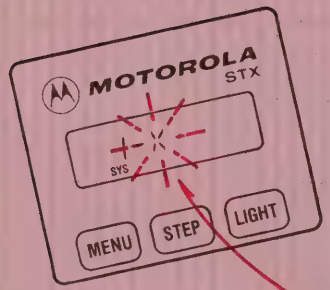
2. **EMERGENCY CALL.** If the STX radio has Emergency Call only, **EMER** will be solid on the display when the control button is pressed. If the STX radio got to Emergency Call after an alarm was sent, **EMER** may still be flashing if the alarm did not get through.

Once in Emergency Call, pressing **PTT** will cause the STX radio to request a priority channel assignment. While in Emergency Call, the STX radio will operate in a normal dispatch manner. Whether your STX radio is tactical or not controls what subfleet you can talk on in an emergency manner. If non-tactical, you will talk on a pre-programmed emergency subfleet. If tactical, you will be talking on the subfleet you chose before entering Emergency. You must leave Emergency Call to change subfleets.

The control button must be used to leave Emergency Call by holding it down. After one and a half seconds, a tone will be heard, indicating the STX radio has left Emergency mode. (There will be no out-of-range message.)

Note: *Emergency signals a critical situation. It should not be used for any other reason.*





What Dynamic Regrouping Is and How It Works

Note: *When you have been dynamically regrouped, you'll hear a distinct "gurgle" tone.*

Some of the STX radios covered by this user's manual can be dynamically regrouped. You would not notice this until such time as you found that you had been grouped with others into a different subfleet than usual.

For example, this function could be used in an emergency situation where it might be necessary for public safety officials to put into place a special subfleet group made up of police, fire, etc.

display radios in general

Select enable/disable is a way for the dispatcher to control what group(s) you can talk with.

When you've been dynamically regrouped, you'll see an **X** in the subfleet position.

If your radio is "select enabled," you can move in and out of the dynamic group to talk with someone on your home subfleet or another subfleet. Subfleet **X** is added to your list of subfleets. When you want to talk with your dynamic group, use **STEP** to select subfleet **X.** Under this condition, you are still able to use any of the advanced features your radio has.

If your radio is "select disabled," you will be forced to talk with the Dynamic Group **(X).** Under this condition, you can only use CALL ALERT (if your radio has it) and any conventional channels you may have. No other trunked systems will be available.

Whether your radio is select enabled or disabled, when the dynamic regroup command is cancelled, the displayed **X** disappears and the first subfleet in your current system will be displayed.

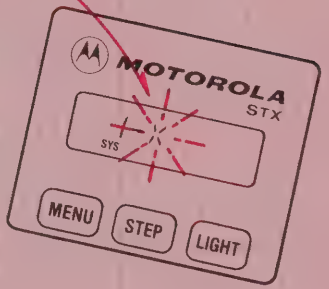
display radios with a rotary control

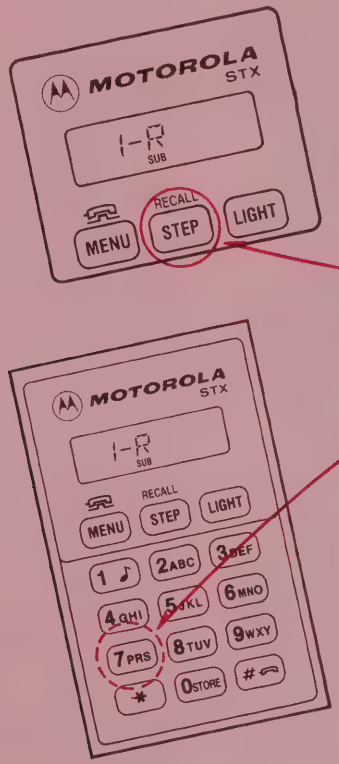
When you have been dynamically regrouped, you'll see a flashing **X** on your display. If you press the **PTT** switch while the **X** is flashing, you'll hear the "gurgle" tone, a reminder that you are talking with your dynamic group. By turning the rotary control to the dynamic subfleet position, you eliminate the "gurgle" tone. If your radio is select enabled, you still can use any advanced features your radio is programmed to do. If your radio is select disabled, you can only use CALL ALERT (if your radio has it) and any conventional channels you may have. No other trunked systems will be available.

When the dynamic regroup command has been cancelled, the radio makes it clear, by a constant low pitched tone, that you are still in that dynamic subfleet position until you move to another position using the rotary control. If you were not in the dynamic regroup position (and **X** was flashing), the proper subfleet reappears when the dynamic regroup command is cancelled.

basic rotary radio

When a basic rotary STX radio has been regrouped, you will hear the dynamic regroup tone ("gurgle") every time you press the **PTT** switch. By turning the rotary control to the dynamic subfleet position, you eliminate the "gurgle" tone. When the dynamic regroup command has been cancelled, the radio will sound a constant low pitched tone until you turn the rotary control to a different position.





How Reprogram Request Works with Dynamic Regrouping

display radios without a rotary control

Reprogram request is a way for you to tell the Dynamic Regroup console that you want a new dynamic grouping assignment.

You can make a reprogram request by moving the STX radio into **SUB.** Then press **STEP** until **R** is displayed. (If you have the additional keypad press **7** twice.)

Because reprogram request is like CALL ALERT, pressing **PTT** sends a signal to the dynamic regrouping console.

You'll hear 1 beep if the trunked system heard your request. You'll hear 4 more beeps when the Dynamic Regroup console acknowledges. Then the last subfleet shown will be restored to the display.

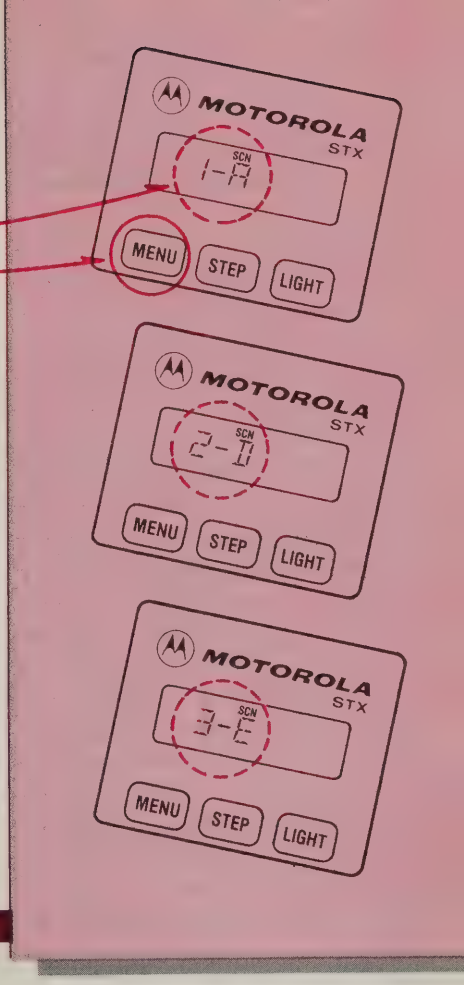
The STX radio will give you a constant low pitched tone if you leave **R** displayed to remind you that you could be missing subfleet calls.

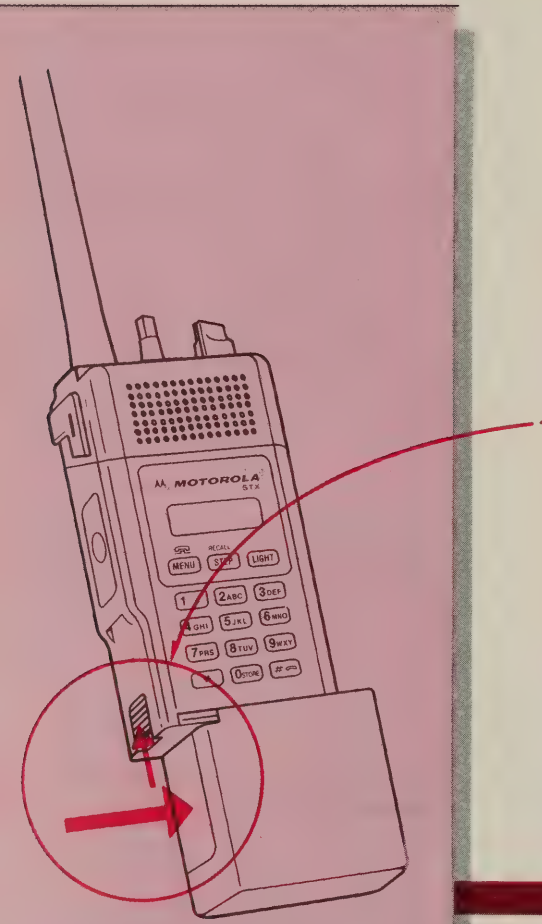
How Trunking Scan Works

display radios only

1. Press **MENU** to move the STX radio into trunking scan mode.
2. **SCN** enables you to monitor on a nonpriority basis a preselected number of fleet and subfleet pairs. Notice that you see the system (fleet) number and subfleet letters displayed in turn.
3. If you hear voice traffic on a particular subfleet, the system and subfleet "freeze" on the display and if you press the **PTT** switch right after the other person's transmission ends, you'll be heard on that subfleet.

If you press the **PTT** switch while scanning, you'll be transmitting on your "home" fleet and subfleet. Your home fleet and subfleet is the one you had selected before you moved the STX radio into trunking scan mode.





How to Remove / Replace the Battery

1. Make sure your radio is turned off.
2. Hold the STX radio in your left hand and slide the battery release with your thumb.
3. While holding the battery release, slide the battery pack away from you until it clears the STX radio.
4. To replace the battery, hold the STX radio in your left hand and with your right hand slide the battery pack into its housing until it clicks into place.

Warning: **Don't replace the battery in a hazardous atmosphere and never discard used batteries in fire – an explosion may result.**

Cleaning Procedures

Cleaning of the STX radio's external surfaces:

External surfaces include the housing, the frame, and the battery case. The only recommended agent for cleaning the external radio surfaces is a 0.5% solution (1 teaspoon per gallon of water) of a mild dishwashing detergent in water.

The detergent-water solution should be applied sparingly with a stiff, non-metalic, short-bristled brush to work all loose dirt away from the radio. A soft, absorbent, lintless cloth or tissue should then be used to remove the solution and dry the radio. Make sure that no water remains entrapped near the connectors, cracks, or crevices.

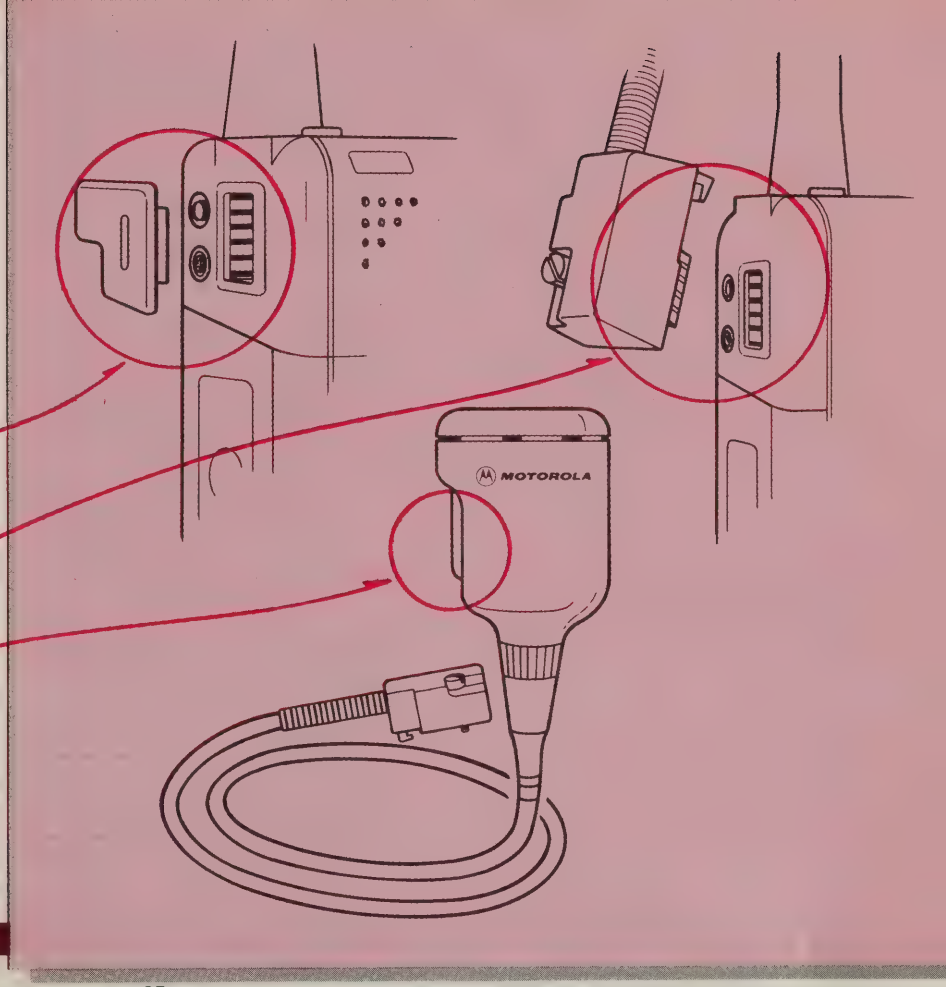
Accessory Instructions

External Speaker-Microphones. A cable and plug connect these units to the accessory connector on the side of the radio.

A dust cover to protect the accessory connector contacts is shipped with the radio and should be installed on the radio whenever the connector is not in use with an accessory.

1. To remove the dust cover (boot) from the accessory connector, gently pry up the cover, and remove it. *Save it for later use.*
2. Fit the microphone plug lip into the groove on top of the radio. Pivot the plug into the connector. Tighten screw.
3. Speak into the microphone. The **PTT** switch is located on the external speaker-microphone.

Caution: *Although the accessory connectors for other Motorola radios are similiar in appearance to that designed for the STX radio, they are not compatible. Your radio will not operate properly if you try to use them.*



LIST OF ACCESSORIES

Model#	Description
NMF6001	Public Safety Antenna Microphone, Straight Coaxial Cord
NMN4339	Remote Speaker Microphone, Coiled Cord
NMN6115	Remote Speaker Microphone, Straight Cord
NAF4000	Dipole Antenna
NLN6394	Carry Strap, Black
NLN6042	Belt, Black
NTN4389	Nylon Hold-down Strap
NLN8858	Rapid Single-Unit Charger 117V
NLN8988	Rapid Multi-Unit Charger 117V/220V
NLN8856	14 Hour Single-Unit Charger 117V
NLN8990	14 Hour Multi-Unit Charger 117V/220V
NLN4038	Rapid Single-Unit Charger 220V
NLN4036	14 Hour Single-Unit Charger 220V
NTN4501	Wall Mount Kit
NTN4494	Rack Mount Kit
NTN4490	Carry Case Cover
NTN4390	Swivel Case with Velcro (Size 7)
NTN4350	Standard Carry Holder
NTN4467	Swivel Case with Velcro (Size 10)
N1352	CONVERTA-COM Console
N1353	15 Watt RF Amplifier
NTN4326	Medium Capacity Battery
NTN4534	Intrinsically Safe Medium Capacity Battery
NTN4327	High Capacity Battery
NTN4500	Intrinsically Safe High Capacity Battery

Operating Hints

If you experience operating difficulties:

1. Review the appropriate steps in the operating procedures for the STX radio.
2. Check to see that your radio's battery is charged.
3. If transmission quality is poor, check the antenna. It must be undamaged and held in an upright position for maximum range.
4. If you have trouble accessing the system, try different operating locations.
5. If your radio has a rotary control and from a given rotary position you get a persistent talk prohibit tone, try another rotary position because the first is invalid.

Safety Information

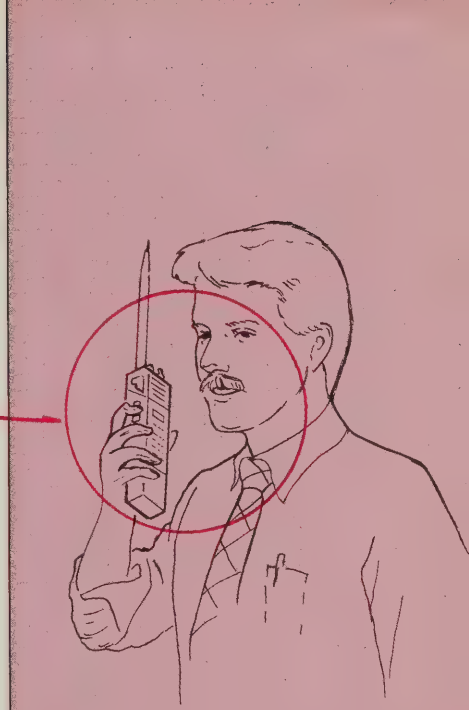
The United States Department of Labor, through the provisions of the Occupational Safety and Health Act of 1970 (OSHA), has established an electromagnetic energy safety standard which applies to this equipment. Proper use of this radio will result in exposure below the OSHA limit.

DO NOT hold the radio with the antenna very close to, or touching, exposed parts of the body, especially the face or eyes, while transmitting. The radio will perform best if the microphone is two or three inches away from the lips and the radio is vertical.

DO NOT hold the transmit **(PTT)** switch on when not actually desiring to transmit.

DO NOT allow children to play with any radio equipment containing a transmitter.

DO NOT operate a transmitter near unshielded electrical blasting caps or in an explosive atmosphere unless it is a type especially qualified for such use.



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Service Information

If any operational difficulties should arise, report them to authorized maintenance personnel. Proper repair and maintenance procedures will assure efficient operation and long life for this radio. A Motorola maintenance agreement will provide this at minimum cost. Motorola will provide expertly trained personnel to keep all your two-way radio equipment in perfect operating condition.

General Battery Information

The STX radio operates with either a medium or high capacity rechargeable nickel-cadmium battery. This battery is a safe, dependable power system specifically designed for use in the STX radio. For more information on your battery and its care write to Battery Department, Motorola, Inc., 8000 W. Sunrise Blvd., Ft. Lauderdale, FL 33322.

To make sure that you get optimum capacity and performance, you should always recharge your battery before using.

Background Information on Trunked Systems

A microprocessor in the STX radio controls functions within a Motorola Trunked Radio System. That design which works with a System Controller to select and assign voice channels results in reliable, simple, and automatic two-way radio communications.

Because no two groups will be assigned the same channel at the same time, interference is eliminated and privacy ensured. You don't need to make repeated attempts to gain system access. If all channels are busy the STX radio gives a busy tone; when a channel becomes available your radio is asigned to that channel automatically and you hear a talk permit tone.

A key feature of the STX radio is its dual operation: you can maintain communications when access to conventional and/or trunked systems is required. Trunked systems offer advantages including elimination of frequency selection, squelch controls, and channel monitoring. At the same time, conventional operation lets you maintain communications even when you've left the trunked system's range.

Communication "trunking" has one main goal: to improve a system's efficiency by sharing its resources among many users. Although trunking has been used for years by telephone companies, Motorola has pioneered its use in the two-way radio industry. The STX radio is one of the latest and most sophisticated of our products employing trunking technology.

How does trunking work? It first lets a great many people like you share a limited number of radio frequencies. When you want to contact someone or that person wants to contact you, a communications path, called a repeater, is assigned to whoever begins the transmission.

Once you end the conversation, the repeater is free for assignment to other users. This sharing of frequencies is the heart of a Trunked Radio System and what's more it is done automatically through use of multiple repeaters and a central controller.

List of Audible Tones

CALL ALERT: 1 high pitched tone.

CALL ALERT decode: 4 high pitched tones.

Call back: Same as talk permit. 3 short high pitched tones ("dih-dih-dit").

Dispatch busy: "bah-bah-bah-bah" tones as long as PTT is depressed.

Dynamic regrouping: A distinct "gurgle" tone.

Failsoft: Continuous low beeping tone every 10 seconds.

Invalid key: Sounds like "bonk."

Low battery: Cricket like sound "chirp, chirp."

Out of range: Same as talk prohibit. Continuous tone heard while PTT is depressed.

Phone busy: "bah-bah-bah-bah" tones.

PRIVATE CONVERSATION call alert: 2 beeps when private call received.

Talk permit: Same as call back. 3 short high pitched tones ("dih-dih-dit").

Talk prohibit: Continuous tone heard while PTT is depressed. Same as out of range.

Time-out-timer: Continuous tone heard while transmitting.

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21.) To Change System | Subfleet Using the Additional Keypad

display radios ony

Press ***.** If your radio was in **SUB,** it moved to **SYS.** If it was in **SYS,** it moved to **SUB.** If the STX radio was in any other function, pressing * moved you to **SUB.** If you were in subfleet **A** and wanted to move into subfleet **D,** simply press the **DEF** button.

22.) Dynamic Regrouping

For information on dynamic regrouping, see your STX radio Operator's Manual.

23.) Reprogram Request with Dynamic Regrouping

For information on reprogram request, see your STX radio Operator's Manual.

Operating Hints

If you experience difficulty,

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2. Check to see that your battery is charged.
3. If transmission quality is poor, check the antenna. It must be undamaged and held in an upright position for maximum range.
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Invalid key: Sounds like "bonk."
Low battery: Cricket sound like "chirp, chirp."
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Phone busy: 4 "BAH-BAH-BAH-BAH" tones.
PRIVATE CONVERSATION call: 2 beeps when private call received.
Talk permit: Same as call back. 3 short high pitched tones ("dih-dih-dit").
Talk prohibit: Continuous tone heard while PTT is depressed.
Time-out-timer: Continuous tone heard while transmitting.

The "STX" Radio QUICK REFERENCE CARD

1.) Low Battery Alert

display radios

BATT flashes on display and you hear low battery alert tone ("chirp").

nondisplay radios

You hear low battery alert tone ("chirp").

2.) Time-Out-Timer

Timer is set at 15, 30, 60, or 120 seconds. A warning tone tells you transmission is about to end 4 seconds before it does.

3.) Control Button

a.) If for emergency, press to send an alert or call.
b.) If it's for volume set, press it to set audio loudness/softness.
c.) If it's for phone access, press it to respond and hang up.

4.) Failsoft

display radios

FSOFT shown on display and you hear faint beeping tone every 10 seconds.

nondisplay radios

You hear faint beeping tone every 10 seconds.

5.) Locking Keypad

display radios

Press **MENU** to get to **LCK.** If it's flashing, press **STEP** to lock. Press **STEP** again to unlock.

6.) Selecting Systems

display radios

In **SYS,** press **STEP** to select system.

display radios

a.) Basic talk listen model: No system select.

b.) Basic rotary model: You may be able (depending on how your radio is configured) to select systems using rotary control.

7.) Selecting Subfleets

nonrotary display radios

In **SUB,** press **STEP** to select subfleet.

rotary display radios

Select subfleet by turning rotary control.

nondisplay radios

a.) Basic talk listen model: you can't do subfleet select.

b.) Basic rotary model: you may be able (depending on how your radio is configured) to select subfleets using rotary control.

8.) Sending a Dispatch Call

trunked system

Press **PTT** talk, release to listen.

conventional channel

Press **PTT** to monitor channel. If clear, begin transmission.

9.) Sending a PRIVATE CONVERSATION Call

display radios only

Press **MENU** to get to **PVT.** Press **STEP** to select person to call.

10.) Receiving a PRIVATE CONVERSATION Call

display radios only

Press **MENU** to get to **PVT.** Press **PTT** to talk, release to listen.

11.) Sending a CALL ALERT (Page)

display radios only

Press **MENU** to get to **ALERT.** Press **STEP** to select person to CALL ALERT.

12.) Receiving a CALL ALERT (Page)

display radios only

Press **PTT** to acknowledge alert.

13.) Trunking Scan

display radios only

Press **MENU** to get **SCN.**

14.) Making a Phone Call

display radios

Press **#(** ☎ **)** for dial tone (control button if it's for phone access). Press **PTT** to talk, release to listen. Press **MENU (** ☎ **)** to hang up.

nondisplay radios

Press control button for dial tone and to hang up. Press **PTT** to talk, release to listen.

15.) To Redial Last Phone Number Dialed

display radios only

Press **#(** ☎ **)** for dial tone (control button if it's for phone access). Press **STEP (RECALL).** Press **0 (STORE).**

16.) Using Display as Scratchpad

display radios only

Press **STEP (RECALL).** Press **#.** Press buttons for number. Press **MENU (** ☎ **)** to hang up. Press **#(** ☎ **)** for dial tone. Press **STEP (RECALL).** Press **0 (STORE).**

17.) When You Get a Phone Call

display radios

Press **#(** ☎ **)** to answer. Press **PTT** to talk, release to listen. Press **MENU (** ☎ **)** to hang up.

nondisplay radios

Press **#(** ☎ **)** to answer. Press **PTT** to talk, releae to listen. Press control button to hang up.

18.) To Store Phone Numbers

display radios only

Put radio into subfleet select. Press **0 (STORE).** Press **0 (STORE)** again. Press number (1-9) of location to store phone number in. Press buttons for phone number to store. Press **MENU (** ☎ **)** to store phone number.

19.) To LIST and Dial Stored Phone Numbers

display radios only

In **SUB,** press **0 (STORE).** Press number (1-9) of location. Press **#(** ☎ **).** Press **STEP (RECALL),** and then number of location.

20.) To Mute | Unmute Keypad Tones

display radios

To turn off tones which sound when you use keypad, press **1 (♪)** while the STX radio is in **SUB.** Press **1 (♪)** again to restore sounding of tones.

nondisplay radios

On basic talk-listen model, press **1 (♪)** to turn off tones which sound when you use keypad. Press **1 (♪)** again to restore sound of tones.

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